Installation Guide

Induction or radiant cooktop with automatic cooking sensor function

The cooking assistance function for induction and radiant cooktops is the guarantee for simple cooking and promise excellent cooking results. The recommended temperature levels are suitable for each type of cooking like keep warm, simmering, cooking, steam pressure cooking and deep frying. They allow cooking processes without excessive boiling and promise perfect cooking result.
The sensors measure throughout the complete cooking process the temperature of the cooking vessel. This allows regulating the cooking power to maintain the desired temperature. If the selected temperature is reached, the food can be added. The temperature is automatically kept constant, without the temperature level needs to be changed.

The cooking sensor function consists out of two parts:

YL245:
This small electronic printed circuit board is the interface between the device internal communication bus and the Bluetooth LE air interface. It has no interfaces to the operator and is only controlled thru the communication bus.

Contains Transmitter Module FCC ID:2AEYO-YL245 / contains IC:20327-YL24

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term “fixed location” means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

This device complies with FCC/IC RF exposure limits for limits for general population/uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

WSP-I:
The WSP-I is the battery drive mobile part of the cooking sensor function. Therefore a ferromagnetic silicone ring will be glued to the cooking vessel. To this ring the cooking sensor can be attached. It will measure the temperature of the vessel and transmit it via Bluetooth LE to the YL245. For operator interactions it contains a push button for connection and assignment to the right cooking zone and a LED to display connection states and a empty battery.

YL245: variant-depending Schematics, Component-Mounting-Diagrams and Bill-of-Material

Description

The module YL245 is used as a wireless control board in induction and radiant hobs. The following features are provided:

- BLE: Bluetooth Low Energy communication to module YL244 (wireless sensor probe)
- DBUS2: diagnostics interface and universal bus system for connecting several modules (user-interface, power-board,…) within a home appliance, interface X2 & X3
- FS: Frying Sensor, temperature control for a pan at a radiant-heater, temperature measured with PT1000-sensor, interface X1

YL245 variants

YL245 P02
Module is equipped with all necessary components for the features BLE & DBUS2.

YL245 P03
Module is equipped with all necessary components for the features BLE & DBUS2 & 1x FS.

YL245 P04 (maximal equipment)
Module is equipped with all necessary components for the features BLE & DBUS2 & 2x FS.